

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A heat distributor ~~adapted to be~~ mounted to an electrical connector having an insulation housing defining cells that receive and retain therein conductive contacts each carrying soldering material to be soldered to a circuit board for uniformly transferring heat to/from the contacts during a soldering process, the heat distributor comprising:

a base plate made of thermally conductive material, the base plate having a bottom face ~~adapted to be~~ being directly positioned on the housing and an opposite top face; and

a plurality of thermally conductive pins extending from the bottom face of the base plate;

wherein the pins are arranged in accordance with the cells and are ~~insertable~~ inserted into the cells to physically engage the contacts for transferring heat to the contacts and the soldering material.

Claim 2 (original): The heat distributor as claimed in Claim 1, wherein the base plate and the pins are made of metals.

Claim 3 (cancelled)

Claim 4 (cancelled)

Claim 5 (original): The heat distributor as claimed in Claim 1, wherein the base plate has a surface area substantially corresponding to a top face of the connector housing.

Claim 6 (original): The heat distributor as claimed in Claim 1, wherein the base plate has a surface area substantially smaller than a top face of the connector housing.

Claims 7-8 (cancelled)

Claim 9 (cancelled)

Claim 10 (new): An electrical connector system comprising:

a circuit board with conductive traces formed thereon;

an electrical connector comprising an insulation housing and a plurality of conductive members received in the housing, the housing defining a top surface and a bottom surface and an array of cells between the top surface and the bottom surface, each cell receiving and retaining a conductive member therein, the conductive members each having tail sections corresponding to the conductive traces of the circuit board;

soldering pre-forms arranged between the conductive traces and the tail sections of the conductive members; and

a heat distributor attached to the connector and comprising a base plate and conductive pins extending from the base plate toward the housing, the pins thermally engaging the conductive members of the connector and creating a homogenous heat transfer to/from the soldering pre-forms to thereby eliminate heat differences between the soldering pre-forms, the base plate defining a surface area no greater than the top surface of the connector housing, the heat distributor being centrally located on the top surface of the connector housing.